

	Type	L #	Hits	Search Text	DE s	Time Stamp	Com men ts	Err or Def ini tio n	Er ro rs
1	BRS	L1	55	clostridial adj neurotoxin	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:32			0
2	BRS	L2	366	botulinum adj (toxin or neurotoxin)	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:32			0
3	BRS	L3	9706	lectin	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:33			0
4	BRS	L4	61	(galactose adj binding) same 3	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:34			0
5	BRS	L5	7	(1 or 2) same (3 or 4)	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:37			0
6	BRS	L6	546	lectin same (galactose or galactosyl or aceylgalactosamine)	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:37			0
7	BRS	L7	2	(1 or 2) same (6)	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:38			0
8	BRS	L8	2804	erythrina or (glycine adj max) or (arachis adj hypogaea) or (bandeirea adj simplicifolia)	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:38			0
9	BRS	L9	111	(erythrina or (glycine adj max) or (arachis adj hypogaea) or (bandeirea adj simplicifolia) ) same lectin	USPAT; US-PGPUE; EPO; JPO; DEFWENT	2002/03/1 5 15:39			0

Type	L #	Hits	Search Text	DE s	Time Stamp	Com men ts	Err or Def ini tio n	Er ro rs
10 BRS	L10	0	((erythrina or (glycine adj max) or (arachis adj hypogaea) or (bandeirea adj simplicifolia) ) same lectin) same (clostridial adj neurotoxin)	USPAT; US-PGPUE ; EPO; JPO; DEF WENT	2002/03/1 5 15:39			0
11 BRS	L11	0	(lectin same (recombinant or modified) ) same (botulinum adj (toxin or neurotoxin))	USPAT; US-PGPUE ; EPO; JPO; DEF WENT	2002/03/1 5 15:39			0
12 BRS	L12	56	lectin same (arachis adj hypogaea)	USPAT; US-PGPUE ; EPO; JPO; DEF WENT	2002/03/1 5 15:39			0
13 BRS	L13	0	(lectin same (arachis adj hypogaea) ) same (clostridial adj neurotoxin)	USPAT; US-PGPUE ; EPO; JPO; DEF WENT	2002/03/1 5 15:40			0

=> d his

(FILE 'HOME' ENTERED AT 15:42:12 ON 15 MAR 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'  
ENTERED AT

15:42:43 ON 15 MAR 2002

L1 832 S (CLOSTRIDIAL NEUROTOXIN)  
L2 18172 S (BOTULINUM TOXIN) OR (BOTULINUM NEUROTOXIN)  
L3 141534 S LECTIN  
L4 15375 S L3 (P) (GALACTOSE OR GALACTOSYL OR  
ACETYLGALACTOSAMINE)  
L5 2 S (L1 OR L2) AND L4  
L6 2 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)  
L7 9561 S L3 (P) (RECOMBINANT OR MODIF?)  
L8 4 S (L1 OR L2) AND L7  
L9 2 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)  
L10 1 S L9 NOT L6

=> log y

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:42:12 ON 15 MAR 2002

=> file medline caplus biosis embase scisearch agricola		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'MEDLINE' ENTERED AT 15:42:43 ON 15 MAR 2002

FILE 'CAPLUS' ENTERED AT 15:42:43 ON 15 MAR 2002  
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FILE 'EMBASE' ENTERED AT 15:42:43 ON 15 MAR 2002  
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FILE 'AGRICOLA' ENTERED AT 15:42:43 ON 15 MAR 2002

=> s (clostridial neurotoxin)  
L1 832 (CLOSTRIDIAL NEUROTOXIN)

=> s (botulinum toxin) or (botulinum neurotoxin)  
L2 18172 (BOTULINUM TOXIN) OR (BOTULINUM NEUROTOXIN)

=> s lectin  
L3 141534 LECTIN

=> s l3 (p) (galactose or galactosyl or acetylgalactosamine)  
L4 15375 L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)

=> s (l1 or l2) and l4  
L5 2 (L1 OR L2) AND L4

=> duplicate remove l5  
PROCESSING COMPLETED FOR L5  
L6 2 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)

=> d l6 1-2 ibib abs

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2000:706999 CAPLUS  
DOCUMENT NUMBER: 133:261538  
TITLE: Use of a lectin or lectin conjugate for modulation of  
C-fiber activity, and therapeutic use thereof  
INVENTOR(S): Foster, Keith Alan; Chaddeock, John Andrew; Quinn,  
Conrad Padraig

HBM

PATENT ASSIGNEE(S): Microbiological Research Authority, UK  
SOURCE: PCT Int. Appl., 62 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000057897	A1	20001005	WO 2000-GB1247	20000331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1165114	A1	20020102	EP 2000-914295	20000331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: GB 1999-7429 A 19990331  
WO 2000-GB1247 W 20000331

AB The invention relates to the treatment of pain and to compds. that modulate C-fiber activity. In particular, the invention relates to the use of a lectin in the manuf. of a medicament for modulation of C-fiber neuron activity, and to lectin conjugates. The lectin conjugates comprise a lectin coupled to a peptide or protein, wherein the peptide or protein is substantially free of **Clostridial neurotoxin** enzyme activity. The invention also concerns methods for manufg. the conjugates. The compds. and compns. described have particular application in the treatment of diseases of which C-fiber activity is a component. Such diseases include pain, inflammation, psoriasis and other C-fiber related conditions.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999:249106 CAPLUS  
DOCUMENT NUMBER: 130:276767  
TITLE: Conjugates of **galactose-binding lectins and clostridial neurotoxins** as analgesics  
INVENTOR(S): Duggan, Michael John; Chaddock, John Andrew  
PATENT ASSIGNEE(S): The Speywood Laboratory Limited, UK; Microbiological Research Authority  
SOURCE: PCT Int. Appl., 50 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

HBM

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9917806	A1	19990415	WO 1998-GB3001	19981007
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9893574	A1	19990427	AU 1998-93574	19981007
AU 741456	B2	20011129		
ZA 9809138	A	19990527	ZA 1998-9138	19981007
EP 996468	A1	20000503	EP 1998-946571	19981007
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001518522	T2	20011016	JP 2000-514674	19981007
PRIORITY APPLN. INFO.:				
			GB 1997-21189	A 19971008
			WO 1998-GB3001	W 19981007
AB A class of novel agents that are able to modify nociceptive afferent function is provided. The agents may inhibit the release of neurotransmitters from discrete populations of neurons and thereby reduce or preferably prevent the transmission of afferent pain signals from peripheral to central pain fibers. They comprise a <b>galactose</b> -binding <b>lectin</b> linked to a deriv. of a <b>clostridial neurotoxin</b> . The deriv. of the <b>clostridial neurotoxin</b> comprises the L-chain, or a fragment thereof, which includes the active proteolytic enzyme domain of the light (L) chain, linked to a mol. or domain with membrane-translocating activity. The agents may be used in or as pharmaceuticals for the treatment of pain, particularly chronic pain.				
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE				
FORMAT				

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L5 2 S (L1 OR L2) AND L4  
L6 2 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)

=> s l3 (p) (recombinant or modif?)  
L7 9561 L3 (P) (RECOMBINANT OR MODIF?)

=> s (l1 or l2) and l7  
L8 4 (L1 OR L2) AND L7

=> duplicate remove l8

HBM

DUPLICATE PREFERENCE IS 'CAPLUS, EMBASE, SCISEARCH'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L8

L9 2 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)

=> s l9 not l6

L10 1 L9 NOT L6

=> d l10 1 ibib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:75297 CAPLUS

DOCUMENT NUMBER: 136:113889

TITLE: Modification of biological properties of protein toxins by stepwise iodination

AUTHOR(S): Heneine, Luiz G. D.; Heneine, Ibrahim F.

CORPORATE SOURCE: Research & Development Laboratory, Ezequiel Dias Foundation (FUNED), Belo Horizonte, 30510-050, Brazil

SOURCE: Journal of Toxicology, Toxin Reviews (2001), 20(3 & 4), 209-228

CODEN: JTTRD9; ISSN: 0731-3837

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. By gradual incorporation of stable iodine into toxins and whole

venoms it is possible to abolish completely the physiol., lesional, and lethal properties of the native components. The properties of iodinated antigens and from antibodies generated by these detoxified derivs. are presented. The hapten is incorporated into tyrosyl and histidyl residues.

The derivs. can be obtained in <1 h. Within the same batch of protein, there is a determinable stoichiometric ratio hapten/protein to achieve

the

desired **modified** properties of the deriv. The iodinating solns. are easy to prep., can be accurately standardized, and have unlimited shelf lives. The cost of the whole procedure is very low. No side-effects, local or systemic, were obsd., even with prolonged use of the derivs. The method was applied to toxic components and whole venom

of

the scorpion Tityus serrulatus, and the hypertensive, bradipneic, oliguric, lesional, lethal, and cytotoxic effects were completely abolished. Polyclonal antibodies generated by these iodinated antigens neutralized the virulent effects of native components and reversed the .alpha. effects of the whole venom in frog sciatic nerves. They

conferred

active immunization in mice, rats, guinea pigs, goats, horses, and pigeons. Crotoxin and the whole venom of Crotalus durissus terrificus lost the lesional and lethal activity but conserved the immunogenic capacity. They produced antibodies against the native components, giving also vaccinal protection. While the virulent crotalic antigens had a cytotoxic activity, the iodinated antigens were highly mitogenic with human white cells. Repetitive sublethal doses of scorpionic, crotalic, and bothropic venoms led invariably to an amyloid-like deposit in tissues whereas the iodinated samples were ineffective. Allergenic exts. of Schistosoma mansoni can be transformed into anallergic derivs. that

retain

antigenic properties. Violently allergenic exts. of Ascaris lumbricoides

HBM

suum can be completely deactivated with iodination but conserved immunol. competence. Cholera, tetanus, and **botulinum toxins**, as iodinated toxoids, had their lesional and lethal capacity completely avoided. Physiol. proteins with strong biol. activity can also be rendered innocuous. Iodinated insulin lost its capacity to lower blood glucose levels but induced high avidity antibodies in guinea pigs and rabbits. By iodination, kallikrein can be turned unable to contract rat uterus and to liberate kinins from kinninogen. **Modified tonin** do not increase the blood pressure in rats. Aq. exts. of *Leptospira*

*canis*

and *L. icterohaemorrhagiae* after iodination were innocuous to hatched eggs, and immunogenic in mice and rabbits. A **lectin** from *Macrotylenax axillare* lost the hemagglutination capacity with only 75% of iodine satn. The deriv. was highly immunogenic in rabbits. Heavy iodination can transform self-antigens in non-self, generating antibodies in same species animals. All derivs. obtained were stable, did not show any reversion to toxicity, generated antibodies against the native antigens, and gave active protection when injected in animals. The injections were also apparently painless. The time gap between the accident and the administration of antibodies is discussed for systemic and local effects. A new schedule for immunization, only feasible with toxoided venoms, is presented. It is based on a clonal expansion induced by a small dose, followed by an exponential satn. dose of the same toxoid.

The attainment of higher levels of protecting antibodies against the native antigen in the generated sera is unmatched by other procedures. Data for practical use of iodination is presented.

REFERENCE COUNT: 93 THERE ARE 93 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

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L4	15375 S L3 (P) (GALACTOSE OR GALACTOSYL OR ACETYLGALACTOSAMINE)
L5	2 S (L1 OR L2) AND L4
L6	2 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)
L7	9561 S L3 (P) (RECOMBINANT OR MODIF?)
L8	4 S (L1 OR L2) AND L7
L9	2 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)
L10	1 S L9 NOT L6

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
35.35	35.50

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.86	-1.86

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